Appendix B		h_i	Depth of ith channel segment
Notation		i	Inlet channel segment number (from 1 to m)
$a_{\scriptscriptstyle B}$	Bay tidal amplitude	k_{en}	Entrance loss coefficient
a_o	Ocean tidal amplitude	k_{ex}	Exit loss coefficient
$\hat{a}_{\scriptscriptstyle B}$	Dimensionless bay tidal amplitude	K	Keulegan's repletion coefficient
A	Cross-sectional area of the channel	L	Representative length
$A_{\scriptscriptstyle B}$	Bay surface area	L_c	Channel length
A_c	Channel cross-sectional area	L_h	Horizontal length ratio
A_{c^*}	Critical cross-sectional area	L_r	Model-prototype length ratio used for scaling
A_{CE}	Cross-sectional area of throat	$L_{\scriptscriptstyle \mathcal{V}}$	Vertical length ratio
A_{i}	Cross-sectional area of ith channel segment	m	Total number of channel segments
C	Chezy bed resistance coefficient	M	Total annual littoral drift
C_a	Sediment concentration in the bed layer	M_{mean}	Average rate of longshore transport
C_h	Concentration of suspended sediment at a distance h above the bed	n	Manning's bed resistance coefficient
C_K	Coefficient accounting for nonsinusoidal variation of current	p	Pressure
		p	Coefficient in channel width-depth relationship
d	Depth	P	Tidal prism
E	Elasticity	q	Exponent in channel width-depth relationship
F	Impedance	Q	Discharge through channel
F_e	Force due to elasticity	Q_b	Bed-load transport rate
F_{g}	Force due to gravity	Q_d	Rate of sediment deposition per unit width of channel
F_{i}	Inertial force		
F_{pr}	Force due to pressure	Q_f	Freshwater discharge from upstream sources
F_{st}	Force due to surface tension	$Q_{\scriptscriptstyle m}$	Maximum discharge through channel
F_{μ}	Force due to viscosity	Q_{max}	Maximum discharge to inlet
g	Acceleration due to gravity	Q_s	Total suspended load on the updrift side of the channel
h_c	Mean channel depth		

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Q_{sI}	Rate of transport of suspended load reaching the channel	β	Dimensionless dissipation coefficient
		β	Stability index
Q_{s2}	Transport rate across the channel	γ	Kinematic viscosity
r	Ratio of transport rate to inlet discharge used to characterize bypassing	ε	Lag of slack water after high or low water in the ocean
S	Bay storage volume	η	Instantaneous water surface elevation relative to
t	Time	'1	mean water level
T_r	Time ratio	$\eta_{\scriptscriptstyle B}$	Instantaneous water surface elevation in the bay
и	Current velocity in channel	$\eta_{\rm o}$	Instantaneous water surface elevation in the ocean
u_m	Maximum current velocity in channel	λ	Stability index
\hat{u}_m	Dimensionless maximum channel velocity	μ	Dynamic viscosity
V	Current velocity in channel	ν	Dimensionless maximum velocity
V_{max}	Maximum channel velocity	$\nu_{\scriptscriptstyle E}$	Equilibrium value of v
V'_{max}	Dimensionless maximum channel velocity	ρ	Density
V_T	Threshold velocity for sand transport	σ	Surface tension
W_c	Width at inlet throat	σ	Tidal frequency
α	Dimensionless tidal frequency	τ	Angular measure of the lag of slack water in the channel after midtide in the ocean
$\alpha_{\scriptscriptstyle 1}$	Coefficient in relationship between C and $\boldsymbol{A}_{\boldsymbol{c}}$	Ω	Tidal prism
α_2	Coefficient in relationship between C and $\boldsymbol{A}_{\boldsymbol{c}}$		F